
LD 22: Print Routine 3

Overlay program 22 allows data to be printed for the following:

- Configuration Record
- DN to TN Matrix
- System Password number
- System Loop Limits
- software version
- tape ID
- issue number
- equipped feature packages
- System Incremental Software Management (ISM) parameters

With Release 18 and later, when printing the DN block, “MARP” is output prior to the DES if it is the MARP TN. Refer to X11 features and services for an explanation of the MARP feature.

Audit trail for Limited Access to Overlays (LAPW)

You must be logged in with the PWD1 or PWD2 password in order to print the Audit Trail. Printing of the Audit Trail deletes the Audit Trail information and resets the buffer.

Packages equipped

This prompt sequence prints the equipped software packages. In Release 18 and later the packages are printed in numerical order by package number, accompanied by the mnemonic. In addition, you can get the status of an individual package.

Issue and release

If the system has a “patch”, then a “+” is printed next to the issue number.

Read Only Memory (ROM)

This print option only applies to SL-1 ST and Option 21 systems.
UNKNOWN is output for all other systems.

System limits for Incremental Software Management (ISM)

This prints the ISM limits for TNs, ACD Positions, ACD DNs, AST sets, Application Module Links (AML), D-channels (DCH), ISDN BRI Digital Subscriber Loops (DSL) and LTID.

The output is as follows:

```
ACDN xxxx LEFT xxxx USED xxxx
AGNT xxxx LEFT xxxx USED xxxx
AML xxxx LEFT xxxx USED xxxx
AST xxxx LEFT xxxx USED xxxx
DCH xxxx LEFT xxxx USED xxxx
DSL xxxx LEFT xxxx USED xxxx
LTID xxxx LEFT xxxx USED xxxx
TNS xxxx LEFT xxxx USED xxxx
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Prompts and responses

Prompt	Response	Comment
REQ	a...a	Request (a..a = END, ISS, ISSP, PRT, PWD, ROM, SLL, SLT, or TLD)
TYPE	a...a	Type of data block (TYPE responses begin on page 573)
PWD2	xxxx	Password 2
CUST	xx	Customer number associated with this data block
DN	xxxx	Print for Directory Number
CUST	xx	Customer number associated with this data block
DN	xxxx	Print for Directory Number
DATE	dd mmm yy	ACT Date
PAGE	(NO) YES	Data printed on a per-page basis
- ADJUST PAPER THEN <cr>		
	<cr>	Adjust paper so that printing starts at top of sheet.
DES	d...d	Designator
NACT	(NO) YES	Next Activity
- VHST	aaa	View History File (aaa = (%ON) or %OFF)

Alarm and Exception Filter (ALARM) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	ALARM	Print Filter and Exception tables. Must have Alarm Filtering (AFTR) package 243.

Audit trail (AUDT) data

Prompt	Response	Comment
REQ TYPE	PRT AUDT	Print Audit trail. Must be logged in with the PWD1 or PWD2 password. Printing of the Audit trail deletes the Audit trail information and resets the buffer.

Common Equipment (CEQU) data

Prompt	Response	Comment
REQ TYPE	PRT CEQU	Print Common Equipment data

Configuration Record (CFN) data

Prompt	Response	Comment
REQ TYPE	PRT CFN	Print Configuration record

Core Inventory (CINV) data for Option 51C/61C/81/81C

Prompt	Response	Comment
REQ TYPE	PRT CINV	Print Core Inventory list

History File (AHST & PHST) data (Pre-Release 19)

Prompt	Response	Comment
REQ	PRT	Print
TYPE	AHST	Print all of the History File
	PHST	Print the previous History File

History File (VHST) data (Release 19 & later)

Prompt	Response	Comment
REQ	PRT	Print
TYPE	VHST	View the History File
VHST	(%ON)	Turn ON display features
	%OFF	Turn OFF display features
	BFIND aaa	Search backward in the History File
	BFIND	Repeats the previous backward search
	DOWN BOT	Moves to the top of the file
	DOWN	Move forward 6 lines in the History File
	FIND aaaa	Search Forward in the history file
	FIND	Repeats the previous forward search
	HELP	List valid responses
	NEXT BOT	Moves to the end of the file
	NEXT x	Move forward x lines in the History File, display all lines in between
	PREV TOP	Moves to the top of the file
	PREV x	Move backward x lines in the History File, display all lines in between
	TRF	View the system traffic log file
	TTYLOG n	View the log file for TTY port n
	UP TOP	Moves to the top of the file
	UP	Move backward 6 lines in the history file

Input/output device (ADAN) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	ADAN	All I/O devices
	ADAN AML	Application Modules
	ADAN DCH	D-channel and backup D-channels
	ADAN FDK	Floppy Disk units
	ADAN HST	History Files
	ADAN PRT	System Ports
	ADAN TTY	System Terminals

Integrated Message Service (IMA) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	IMA	IMS Message Attendant
CUST	0-99	Customer number

Issue and Release (ISS)

Prompt	Response	Comment
REQ	ISS	Print Issue and Release

Meridian Modular Telephone (ATRN) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	ATRN	Meridian Modular Telephone transmission parameters

Overlay area (OVLY) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	OVLY	Overlay area information

Package (PKG) information

Prompt	Response	Comment
REQ	PRT	Print
TYPE	PKG	Software Packages
	PKG xxx	Check equipped/restricted status of package number xxx

Password (PWD) data (Pre-Release 19)

Prompt	Response	Comment
REQ	PWD	Action Request
PWD2	xxxx	Level 2 Password
	<cr>	Limited Access to Overlays

Password (PWD) data (Release 19 & later)

Prompt	Response	Comment
REQ	PRT	Print
TYPE	PWD	Print System Passwords

Peripheral Software Version (PSWV) data

Prompt	Response	Comment
REQ TYPE	PRT PSWV	Print Peripheral Software Versions downloaded to: NT8D01 Controller cards, NT8D04 Network cards and NT8D018 Network/Digitone Receiver cards.

Read Only Memory (ROM) data

This is not applicable for C processor systems.

Prompt	Response	Comment
REQ	ROM	Print the QPC code of the ROM card

System Limits (SLT) data (Option 11 only)

Prompt	Response	Comment
REQ	SLT	Print System Limits

System Loop limit (SLL) data

Prompt	Response	Comment
REQ TYPE	PRT SLL	Print Print System Loop Limits

System Parameters (PARM) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	PARM	System Parameters

System Patch (ISSP) data

Prompt	Response	Comment
REQ	ISSP	Print System and Patch Information

Tape ID (TID) data

Prompt	Response	Comment
REQ	TID	Print Tape ID

Value Added Server (VAS) data

Prompt	Response	Comment
REQ	PRT	Print
TYPE	VAS	Print Value Added Server data

Alphabetical list of prompts

Prompt	Response	Comment	Pack/Rel
ADJUST PAPER THEN <cr>			basic-1
	<cr>	Adjust paper then <cr> to start printing Start printing	
CUST	xx xx	Customer number Print data range from first to last customer. Not prompted when:	basic-1
		1. REQ = LUU or LUC 2. TYPE = SCL, DIG or TEM 3. a complete TN is entered	
	<cr>	Print data blocks for all customers	
DATE	dd mmm yyyy	Print data from date specified. Where:	basic-1
		• dd = 1-31 • mmm = JAN-DEC • yyyy = year e.g. 1993	
		DATE is prompted for TN related data	
	<cr> ACT	Print data and show last activity date Print data from last activity date	
DES		Designator	odas-1
		DES is prompted on TN related data The printing of data is subject to restrictions imposed by responses to TN and DATE.	
	d...d	Print all units with ODAS designator ddddd	
	d+	Print units starting with ODAS designator d	
	+	Print units with no ODAS designator assigned	
	<cr>	Disregard ODAS designator	

Prompt	Response	Comment	Pack/Rel
DN	xxxx <cr> xxxx <space>	Directory Number Print data block for DN Print data blocks for all DN If a space is entered after the Directory Number the system will reprompt for DN. A maximum of six DNs can be stacked and printed at one time. With Release 19 and later the following responses are valid for DN:	basic-19
	x<cr> xx<cr> xxx<cr>	All DNs starting with first digit x (X000-X999) All DNs starting with first two digits xx (XX00-XX99) All DNs starting with first three digits xxx (XXX0-XXX9)	
	x-<cr> x-y<cr> xx-yyy<cr>	All DNs between X000-9999 All DNs between DN X000 through Y999 All DNs between DN XX00 through YYYY	
	xxxx xxxx xxxx-yyy	Two specific DNs. Up to a maximum of 8 DNs. All DNs between XXXX and YYYY	
NACT	(NO) YES END	Next Activity Return to REQ prompt Print current system data and end overlay End overlay activity	odas-1
PAGE	(NO) YES	Data printed on a per-page basis Prompted only on TN related data	basic-1
PWD2	x...x <cr>	Enter second level administration password (Password 2) to print information relating to all passwords. Valid characters are 0-9, A-Z, a-z. Length is 4-16 characters. To print only the information regarding the Limited Access to Overlay password used to login. PWD2 is prompted when REQ = PWD or TYPE = PWD.	basic-1

Prompt	Response	Comment	Pack/Rel
REQ		Request	basic-1
	END	Exit overlay program	
	ISS	Print generic version and Issue (Rel 18 & earlier)	
	ISSP	Print System and Patch Information (Rel 19 & later)	
	PRT	Print data block for TYPE specified	
	PWD	Print the system Passwords	
	ROM	Print ROM daughterboard QPC number (not applicable for C processor systems)	
	SLL	Print System Loop Limits	
	SLT	Print System Limits : Incremental Software Management (ISM parameters and keywords) (Option 11 only)	
	TID	Print the Tape ID. (S/W Cart ID and Site ID for Option 11).	
TN		Terminal Number	basic-1
		TN is not prompted when TYPE = SCL, HNT, DIG, TEM, or GRP.	
	loop	Print data of the specified TYPE for this loop.	
	l s	Print data of the specified TYPE for this loop and shelf	
	l s c	Print data of the specified TYPE for this loop, shelf and card	
	l s c u	Print data of the specified TYPE for this loop, shelf, card and unit.	
	l s c u, l s c u	List of TNs (up to 6)	
	l s c u, l ch	A TN and a trunk loop/channel can be entered on the same line	
	l s c, l s c	All units within the specified starting and ending cards	
	l s, l s c u	All units, including the specified starting shelf and ending TN	
	l s c u	All TNs starting with the specified TN and ending with the last TN	
	l ch	Print data of the specified TYPE for this loop and channel (format for Digital Trunk and Primary Rate Interfaces).	
	<cr>	Print data for all TNs of the specified TYPE.	

Prompt	Response	Comment	Pack/Rel
		With Release 19 and later the following responses are valid for TN.	
	card	Print data of the specified TYPE for this card (Option 11).	
	c 0 0 u	For Option 11	
	c u	Print data of the specified TYPE for this card and unit (Option 11).	
	c ch	Print data of the specified TYPE for this card and channel (digital trunks only) (Option 11).	
	n. . . n<space>	System will prompt for TN. A maximum of six TNs can be stacked and printed at one time.	
TYPE		Type of data block	basic-1
	ADAN	All I/O devices	
	ADAN AML	Application Modules	
	ADAN DCH	D-channel and backup D-channels	
	ADAN FDK	Floppy Disk units	
	ADAN HST	History Files	
	ADAN PRT	System Ports	
	ADAN TTY	System Terminals	
	ADM	Add-on Data Module (Release 5 and later)	
	ADM M	Data port interfacing with a data line card Option 11 Model	
	AHST	All History File	
	AID	Automatic Identification of Outward Dial (AIOD) trunk. Not supported on Release 20 and later	
	ALARM	Print Filter and expection tables	
	APL	Auxiliary Processor Links	

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Prompt	Response	Comment	Pack/Rel
ATRN		Print Meridian Modular Telephone Transmission parameters	
AUDT		Audit Trail buffer Only system Administrators are allowed to print the Audit Trail. They must first respond to PWD2 in LD 17 to define the password.	
CARD		Card data block (used for Automatic Set Relocation)	
CEQU		Common Equipment	
CFN		Configuration record data block	
CHID		Channel ID for ISDN Signaling Link (ISL)	
CINV		Core Inventory list (Option 81)	
DCP		Directed Call Pickup	
DSDN		Data Services Directory Number or PTE IS	
GHT		Group Hunt	
GRP		Group call	
IMA		IMS Message Attendant	
IADN		Individual Attendant Directory Number	
ISS		Generic version and Issue (Release 18 and earlier)	
ISSP		System and Patch Information (Release 19 and later)	
OVLY		Print Overlay area information	
PARM		System Parameters	
PHST		Previous History File All History File records since last request	
PKG		Packages equipped. For a list of packages, refer to pages 21 or 31.	

Prompt	Response	Comment	Pack/Rel
	PKG xxx	Check equipped/restricted status of package number xxx	
	PSWV	Peripheral Software Version(s) downloaded to: NT8D01 Controller cards NT8D04 Network cards NT8D018 Network/Digitone Receiver cards	
	PWD	Print the system Passwords (Release 19 and later)	
	REF	Loop Reference trunk data	
	RLM RLM M	Release Link Main trunk Option 11 Model	
	RLR RLR M	Release Link Remote trunk Option 11 Model	
	SCI	Station Category Indication data block	
	SFA	Second level Forwarding Allowed	
	SFD	Second level Forwarding Denied	
	SLL	System Loop Limits	
	VAS	Value Added Server data	vns-21
	VHST	View History File	
VHST		View the History File	hist-19
	(%ON) % OFF	Turn ON display features Turn OFF display features This command is used to enable or disable the following three display features: • brackets to surround the current index ([]) • percent symbol (%) preceding each History File line • relative location within the History File (in percentage) VHST accepts abbreviated responses.	

Prompt	Response	Comment	Pack/Rel
	BFIND aaaa	Search backward in the History File This command can be used to search backward, starting at the current index location, for the string "aaaa." If necessary, the file will wrap until it returns to the same location. The text string can be up to 12 characters. Special characters like space, slash (/), and colon (:) are accepted. Leading or trailing spaces are ignored unless enclosed in double quotes. For example, the spaces denoted here are ignored: <SP><SP>INI<SP>. The spaces in this string, however, are included in the search: "<SP><SP>INI<SP>". When the string is found, the system displays the current index location. Five text lines are shown, with the middle line containing the sought string. The VHST prompt is re-displayed to allow more command use. If the string is not found, VHST is reprompted to allow more command use.	
	BFIND	Repeats the previous backward search	
	DOWN BOT	Moves to the top of the file	
	DOWN	Move forward 6 lines in the History File This command can be used to move forward in the History File, toward the end. If x exceeds the end of the file, the end will be shown. When the move is complete, VHST is reprompted to allow more command use.	
	FIND aaaa	Search Forward in the History File This command can be used to search forward, starting at the current index location, for the string "aaaa." If necessary, the file will wrap until it returns to the same location. The text string can be up to 12 characters. Special characters like space, slash (/), and colon (:) are accepted. Leading or trailing spaces are ignored unless enclosed in double quotes.	

Prompt	Response	Comment	Pack/Rel
		For example, the spaces denoted here are ignored: <SP><SP>INI<SP>. The spaces in this string, however, are included in the search: "<SP><SP>INI<SP>". When the string is found, the system displays the current index location. Five text line are shown, with the middle line containing the sought string. The VHST prompt is re-displayed to allow more command use. If the string is not found, VHST is reprompted to allow more command use.	
FIND		Repeats the previous forward search	
HELP		List valid responses	
NEXT BOT		Moves to the end of the file	
NEXT x		Move forward x lines in the History File, display all lines in between. This command can be used to view lines forward, toward the end of the file. The lines between the current index location, and the new one (x lines down) are displayed. If you enter only NEXT, the default of 20 lines is used for the move. When the move is complete, VHST is reprompted to allow more command use.	
PREV TOP		Moves to the top of the file	
PREV x		Move backward x lines in the History File, display all lines in between This command can be used to view lines backward, toward the top of the file. The lines between the current index location, and the new one (x lines up) are displayed. If you enter only PREV, the default of 20 lines is used for the move. When the move is complete, VHST is reprompted to allow more command use.	
TRF		View the system traffic log file	

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Prompt	Response	Comment	Pack/Rel
	TTYLOG n	View the log file for TTY port n	
	UP TOP	Moves to the top of the file	
	UP	Move backward 6 lines in the History File This command can be used to move backward in the History File, toward the top. If x exceeds the top of the file, the top will be shown. When the move is complete, VHST is reprompted to allow more command use.	
